

ABSTRACT

2 An LED light apparatus and methodology that can produce a collinear beam of
3 light. The apparatus has a housing with three sets of LED light assemblies each having
4 several LED lights of the same color, being red, blue or green. A dichroic bandpass filter
5 and a dichroic notch filter are incorporated along with a power supply. In one
6 embodiment both filters intersect forming an x-pattern. Red light passes through both
7 filters. The resulting light from the bandpass filter combines with blue light and passes
8 through the notch filter. This combined light stream then combines with green light to
9 form a collinear beam of white or colored light. The resulting light from the red light
10 passing through the notch filter combines with green light and passes through the
11 bandpass filter. This combined light stream then combines with the blue light to form
12 a collinear beam of white or colored light.

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